

STD BUS

200-2

FEATURES

- Provides eight digits of time/date display when driven by the 200-1 Realtime Clock.
- Two Display cards may be physically and electrically joined to provide 16 character display of time and date.
- Operating power and signals carried on 16 conductor ribbon cable.
- LED characters are .105 high with built-in bubble magnifier.
- Designed for panel mounting — may be used with variety of bezel/filter assemblies.

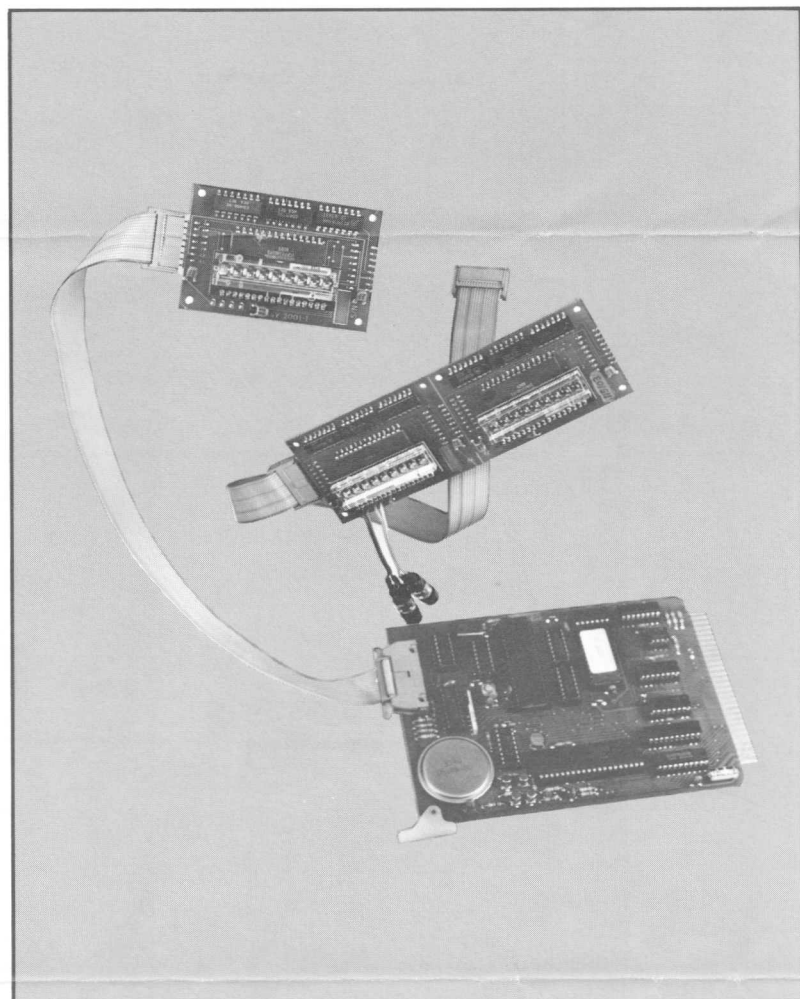
GENERAL DESCRIPTION

The 200-2 Display Card is designed to display time and date information generated by the 200-1 Realtime Clock. The 200-3 interconnecting cable carries power, character and location data, and a write strobe from the Clock card to the Display card input connector. Data is sequentially written into a memory on the Display card and local multiplex circuits control the illumination of the 8 seven-segment LED characters.

Two 200-2 Display cards may be plugged together to form a 16 character display which will show hours, minutes, and seconds on the left Display card and month, day, and year on the right Display card.

The 200-2 Display card has solder pads for optional connection of pushbutton switches which permit time setting the 200-1 Clock card. This method uses no host processor software.

The 200-2 Display card uses all CMOS circuitry and operates on a single +5 volt source. When used with the 200-1 Realtime Clock card, operating power is derived from the clock card.



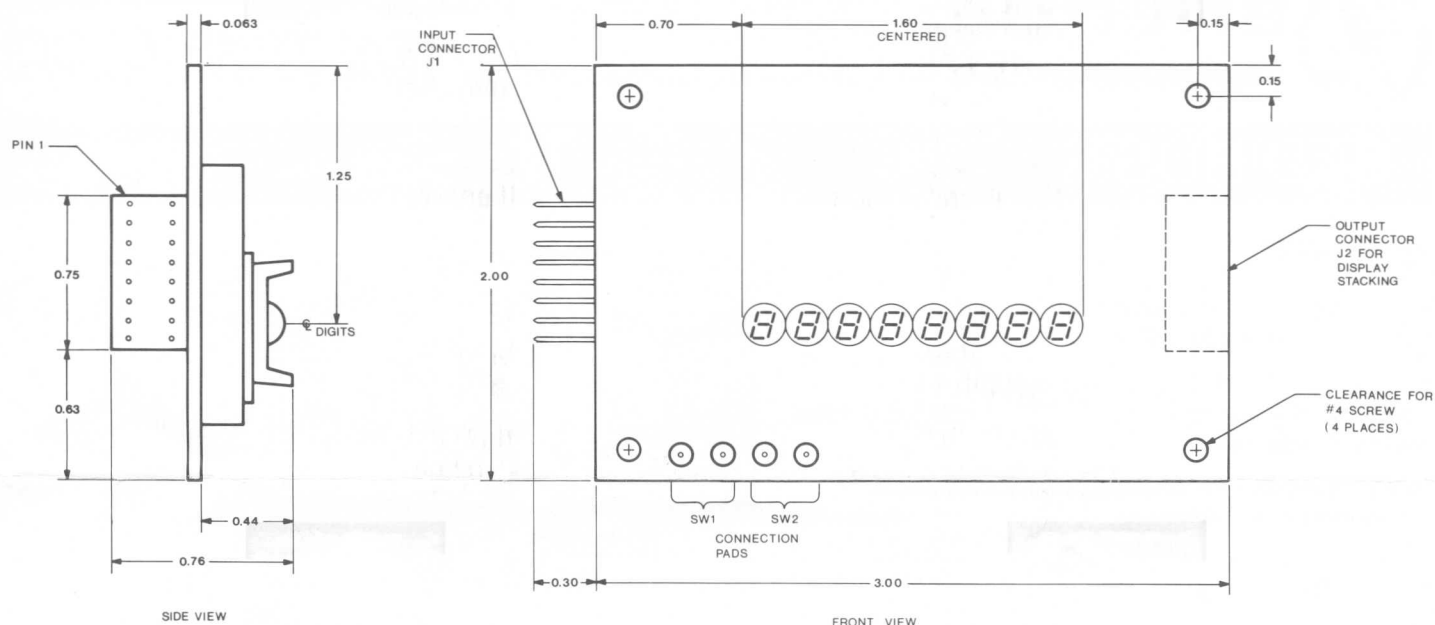
200-2 Display Card shown with 200-3 Cable and Realtime Clock Card.

ORDERING INFORMATION

Display Card for
 Realtime Clock Order #200-2
 Interconnecting
 Cable Order #200-3 (XX)
 (XX) = length in inches

**1728 Kingsley Avenue
 Orange Park, Florida 32073
 904-264-4405**

DISPLAY DIMENSIONS:



CHARACTER SET:

DATA	CHARACTER	DATA	CHARACTER	DATA	CHARACTER	DATA	CHARACTER
0000	0	0100	4	1000	8	1100	H
0001	1	0101	5	1001	9	1101	L
0010	2	0110	6	1010	-(dash)	1110	P*
0011	3	0111	7	1011	E	1111	(blank)

*Writing the character P (Data = E hex) triggers a decimal point to accompany the **next** character written.

CONNECTOR CIRCUIT DESIGNATIONS:

J1-1 Strobe (STR)	J1-9 Address (A3)
J1-2 Ground	J1-10 Address (A0)
J1-3 Switch #1 (SW1)	J1-11 Address (A2)
J1-4 Data (D2)	J1-12 + 5 Volts
J1-5 Ground	J1-13 Address (A1)
J1-6 Data (D3)	J1-14 + 5 Volts
J1-7 Data (D0)	J1-15 Switch #2 (SW2)
J1-8 Data (D1)	J1-16 + 5 Volts

Signals are positive true, 5 volts, CMOS compatible.

Signals at J2 are identical to J1 except A₃ is inverted.

ELECTRICAL SPECIFICATIONS:

Supply Voltage 5.0 ± .5 Volts
Current Requirement . . . 65 mA, maximum

Data and Address Set-Up
Time Prior to Strobe 400 nS, minimum
Strobe Width 400 nS, minimum

DISPLAY FORMAT:

Using two 200-2 Display Cards, the time and date display data from the 200-1 Realtime Clock will be as follows:

HH - MM - SS

H - hours
M - minutes
S - seconds

MM - DD - YY

M - Month
D - day of month
Y - year (last 2 digits)

If one display is used the hours, minutes, and seconds data will be displayed. Using the pushbutton switches, day-of-the-week and date information can be called into the single display.